

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number  
**WO 2005/043167 A3**

(51) International Patent Classification<sup>7</sup>: **G01N 33/574**, C12Q 1/68

(74) Common Representative: ROCHE DIAGNOSTICS GMBH; c/o BURGER, Alexander, Patent Department (TR-E), Postfach 11 52, 82372 Penzberg (DE).

(21) International Application Number:

PCT/EP2004/012469

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(30) Priority Data:

03025342.1 4 November 2003 (04.11.2003) EP

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for DE only*): ROCHE DIAGNOSTIC GMBH [DE/DE]; Sandhofer Strasse 116, 68305 Mannheim (DE).

(71) Applicant (*for all designated States except DE, US*): F. HOFFMANN-LA ROCHE AG [CH/CH]; Grenzacherstrasse 124, CH-4070 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): HAFLER-LACH, Torsten [DE/DE]; Springerstrasse 8, 81477 Muenchen (DE). DUGAS, Martin [DE/DE]; Michael-Fischer-Platz 6, 94469 Deggendorf (DE). KERN, Wolfgang [DE/DE]; Hanfelder Strasse 101, 82319 Starnberg (DE). KOHLMANN, Alexander [DE/DE]; Schwarzstrasse 14, 92318 Neumarkt (DE). SCHNITTGER, Susanne [DE/DE]; Saalburgstrasse 2a, 81375 Muenchen (DE). SCHOCH, Claudia [DE/DE]; Springerstrasse 8, 81477 Muenchen (DE).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
15 September 2005

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

WO 2005/043167 A3

(54) Title: METHOD FOR DISTINGUISHING AML SUBTYPES WITH DIFFERENTS GENE DOSAGES

(57) Abstract: Disclosed is a method for distinguishing AML subtypes with different gene dosages selected from AML-TRI8-AML-TRI11-AML-TRI13, AML-MO7, and/or AML-DEL5q in a sample by determining the expression level of markers, as well as a diagnostic kit and an apparatus containing the markers.